

Product datasheet for **RG216129**

HYAL1 (NM_033159) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HYAL1 (NM_033159) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HYAL1
Synonyms: HYAL-1; LUCA1; MPS9; NAT6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216129 representing NM_033159
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCCACCTGCTTCCCATCTGCGCCCTCTTCTGACCTTACTCGATATGGCCCAAGGCTTTAGGG
GCCCTTGTACCCAACCGGCCCTTACCACCGTCTGGAATGCAAACACCCAGTGGTGCCTGGAGAGGCA
CGGTGTGGACGTGGATGTCAGTGTCTTCGATGTGGTAGCCAACCCAGGGCAGACCTTCCGCGCCCTGAC
ATGACAATTTTCTATAGCTCCAGCTGGGCACCTACCCCTACTACAGCCCACTGGGAGCCTGTGTTT
GTGGTCTGCCCCAGAATGCCAGCCTGATTGCCACCTGGCCCGCACATTCAGGACATCCTGGCTGCCAT
ACCTGCTCCTGACTTCTCAGGGCTGGCAGTCATCGACTGGGAGGCATGGCGCCACGCTGGCCTTCAAC
TGGGACACCAAGGACATTTACCGGCAGCGCTCACGGGCACTGGTACAGGCACAGCACCCCTGATTGGCCAG
CTCCTCAGGTGGAGGCAGTAGCCAGGACCAGTTCCAGGGAGCTGCACGGGCTGGATGGCAGGCACCCCT
CCAGCTGGGGCGGGCACTGCGTCTCGCGGCTCTGGGGCTTCTATGGCTTCCCTGACTGCTACAATAT
GACTTTCTAAGCCCCAACTACACCGGCCAGTGCCCATCAGGCATCCGTGCCAAAATGACCAGTAGGGT
GGCTGTGGGGCCAGAGCCGTGCCCTCTATCCCAGCATCTACATGCCCGCAGTGTGGAGGGCACAGGGAA
GTCACAGATGTATGTGCAACACCGTGTGGCCGAGGCATTCGTGTGGCTGTGGCTGCTGGTGACCCCAAT
CTGCCGTGCTGCCCTATGTCCAGATCTTCTATGACACGACAAACCACTTCTGCCCTGGATGAGCTGG
AGCACAGCCTGGGGAGAGTGGCGCCAGGGGGCAGCTGGAGTGGTCTGTTGGGTGAGCTGGGAAAATAC
AAGAACCAAGGAATCATGTGAGGCCATCAAGGAGTATATGGACTACTGTTGGGCTTCTCATCCTGAAC
GTGACCAAGTGGGGCCCTTCTCTGAGTCAAGCCCTGTGCTCCGGCCATGGCCGCTGTGTCCGCCACCA
GCCACCCCAAAGCCCTCCTCCTTAACCCTGCCAGTTTCTCCATCCAGCTCACGCCTGGTGGTGGGCC
CCTGAGCCTGCGGGTGCCTCTCACTTGAAGATCAGGCACAGATGGCTGTGGAGTTCAAATGTCGATGC
TACCCTGGCTGGCAGGCACCGTGGTGTGAGCGGAAGCATGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216129 representing NM_033159
Red=Cloning site Green=Tags(s)

MAAHLIPICALFLTLLDMAQGFRGPLLPNRPFTTVWNANTQWCLERHGVDVDSVFDVVANPGQTFRGPD
 MTIFYSSQLGTYPYYTPTGEPVFGGLPQNASLIAHLARTFQDILAAIPAPDFSGLAVIDWEAWRPRWAFN
 WDTKDIYRQSRALVQAQHPDWPAPQVEAVAQDQFQGAARAWMAGTLQLGRALRPRGLWGFYGFDCYNY
 DFLSPNYTGQCPSGIRAQNDQLGWLWGQSRALYPSIYMPAVLEGTGKSQMYVQHRVAEAFRVAVAAGDPN
 LPVLPYVQIFYDTTNHFLPLDEHSLGESAAQGAAGVVLWVSWENTRTKESCQAIKEYMDTTLGPFILN
 VTSGALLCSQALCSGHGRCVRRTSHPKALLLLNPNASFSIQLTPGGPLSLRGALSLEDQAQMAVEFKCRC
 YPGWQAPWCERKSMW

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_033159

ORF Size: 1305 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_033159.4](#)

RefSeq Size: 2075 bp

RefSeq ORF: 1308 bp

Locus ID: 3373

UniProt ID: [Q12794](#)

Cytogenetics: 3p21.31

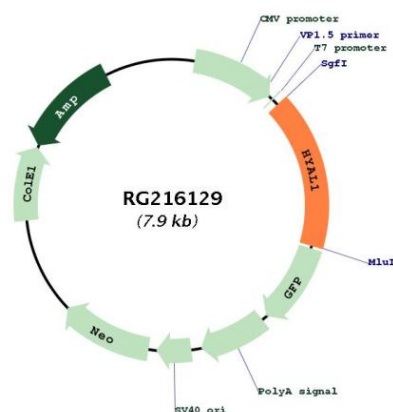
Domains: Glyco_hydro_56

Protein Families: Secreted Protein

Protein Pathways: Glycosaminoglycan degradation, Lysosome, Metabolic pathways

Gene Summary: This gene encodes a lysosomal hyaluronidase. Hyaluronidases intracellularly degrade hyaluronan, one of the major glycosaminoglycans of the extracellular matrix. Hyaluronan is thought to be involved in cell proliferation, migration and differentiation. This enzyme is active at an acidic pH and is the major hyaluronidase in plasma. Mutations in this gene are associated with mucopolysaccharidosis type IX, or hyaluronidase deficiency. The gene is one of several related genes in a region of chromosome 3p21.3 associated with tumor suppression. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216129